Pre-Production Checklist for the application.

* Security Enhancements:

1. Input Validation: Ensure input validation to prevent invalid data and security vulnerabilities.
2. Encryption: Implement encryption for sensitive data.
3. Authentication and Authorization: Ensure proper authentication mechanism like Oauth2, JWI and authorization checks to secure endpoints.

* Testing and Quality Assurance:

1. Unit and Integration Testing: Complete comprehensive unit and integration testing to ensure all components work together.
2. UAT: Conduct UAT to verity that the application meets business requirements.

* SonarQube Checks:

1. Run SonarQube to analyse code quality and ensure adherence to coding standards.
2. Use SonarQube to detect and address potential security vulnerabilities in the code.
3. Review code coverage and code duplications reported by SonarQube.

* Documentation and Training:

1. Provide clear documentation for end-users on how to use application
2. Maintain up-to-date documentation for developers, including architecture, APIs, and deployment process.